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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/015,640	12/10/2001	Theodore J. Letavic	US010631	US010631 7554	
7.	590 02/11/2003				
STEVEN R. BIREN			EXAMINER		
-	nics North America Corpo	NGO, NGAN V			
580 White Plain Tarrytown, NY			ART UNIT	PAPER NUMBER	
, ••,		2814			
			DATE MAILED: 02/11/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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. ,		Application P	J .	cant(s)					
Off	Office Andieus Occionos	10/015,640		LETAVIC ET AL.					
	· Office Action Summary	Examiner		Art Unit					
او.		Ngan Ngo		2814					
- Period fo	- The MAILING DATE of this communication r Reply	appears on the co	ver she t with the	correspondenc addres.	S				
THE N - Exten after S - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATION SIONS of time may be available under the provisions of 37 CF (SIX) (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by simply received by the Office later than three months after the maximum adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, h n. a reply within the statutory eriod will apply and will exp tatute, cause the applicati	nowever, may a reply be ti minimum of thirty (30) da bire SIX (6) MONTHS fror on to become ABANDON	mely filed ys will be considered timely. n the mailing date of this commur ED (35 U.S.C. § 133).	nication.				
1)🛛	Responsive to communication(s) filed on	02 December 200	<u>2</u> .						
2a)⊠	This action is FINAL. 2b)□	This action is nor	n-final.						
3)	Since this application is in condition for all closed in accordance with the practice un				erits is				
· _	on of Claims								
•	Claim(s) <u>1-13</u> is/are pending in the applica								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
· <u> </u>	5) Claim(s) is/are allowed.								
-	☐ Claim(s) <u>1-13</u> is/are rejected.								
· <u> </u>	Claim(s) is/are objected to.	-d/lti	:						
•	Claim(s) are subject to restriction ar on Papers	na/or election requ	irement.						
9)□ T	he specification is objected to by the Exan	niner.							
-	'he drawing(s) filed on is/are: a)⊟ a		ected to by the Exa	aminer.					
	Applicant may not request that any objection t	to the drawing(s) be	held in abeyance.	See 37 CFR 1.85(a).					
11)[] T	he proposed drawing correction filed on _	is: a) 🗌 appro	oved b)⊡ disappr	oved by the Examiner.					
	If approved, corrected drawings are required i	n reply to this Office	action.						
12)∐ T	he oath or declaration is objected to by the	e Examiner.							
Priority u	nder 35 U.S.C. §§ 119 and 120								
13) 🗌	Acknowledgment is made of a claim for for	reign priority under	35 U.S.C. § 119(a)-(d) or (f).					
a)[All b) Some * c) None of:								
	1. Certified copies of the priority docum	nents have been re	eceived.						
;	2. Certified copies of the priority docum	nents have been re	ceived in Applicat	tion No					
	3. Copies of the certified copies of the paper application from the International ee the attached detailed Office action for a	l Bureau (PCT Rul	e 17.2(a)).	_	е				
	cknowledgment is made of a claim for dom		. •		lication).				
_ a)	☐ The translation of the foreign language cknowledgment is made of a claim for dom	provisional applic	ation has been re	ceived.	,				
Attachment		priority ando	. 30 0.0.0. 33 12						
1) Notice 2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No		Notice of Informal	ry (PTO-413) Paper No(s) Patent Application (PTO-152					

Application/Control Number: 10/015,640

Art Unit: 2814

The amendment filed December 2, 2002 has been entered and made of record as paper no. 7.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Simpson et al (cited by Applicants).

Simpson discloses in figures 1 and 2 a high frequency semiconductor device having a doping profile comprising a buried oxide (38A) and a silicon layer (32) in which an origin of a doping profile of the silicon is within a body region of the device. Simpson discloses on line 32 of column 4 that "the minimum charge doping Qmin ranging from zero to a relative low value". It would have been obvious that the doping profile is shifted to the left side of the oxide layer (38A). In re claim 8, Simpson discloses on line 37 of column 4 that the point x0 may be located about 2-4 microns from the edge 30A of the body region which is about the same distance between point x0 to the edge 38C of the top oxide 38.

Claims 1-13 stand alternatively rejected under 35 U.S.C. 103(a) as being unpatentable over Merchant et al (5,300,448), cited by Applicants.

Merchant et al also discloses a "shifted doping profile" in the silicon layer in which the dopant level is approximately zero. Note figures 3-4E of Merchant et al.

Application/Control Number: 10/015,640

Art Unit: 2814

Applicant's arguments filed December 2, 2002 have been fully considered but they are not persuasive.

The term "body region" is simply broad. Any region in a semiconductor layer can be defined as body region. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Further, note that the phases "shifted doping profile" and "an original of a doping profile" are simply broad. It is well known that any silicon layer before doping is in intrinsic (non-doped) state and therefore it has an original of a doping profile approximately zero.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Application/Control Number: 10/015,640

Art Unit: 2814

Any inquiry concerning this communication should be directed to Examiner Ngan Ngo at telephone number (703) 308-4938. The fax number for the Art unit is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Ngan Van Ngo Primary Examiner

Ngan Ngo

February 9, 2003